ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS



158°37'30"

Base from U.S. Geological Survey

This report is a preliminary publica-tion of DGGS. The authors are

solely responsible for its content

and will appreciate candid comments on the accuracy of the data

as well as suggestions to improve

Taylor Mountains D-7, 1954, Quadrangle, Alaska

ALASKA

QUADRANGLE LOCATION



158⁰15

22.

R. 52 W. R. 51 W

APPROXIMATE MEAN DECLINATION, 1954

SCALE 1:63,360

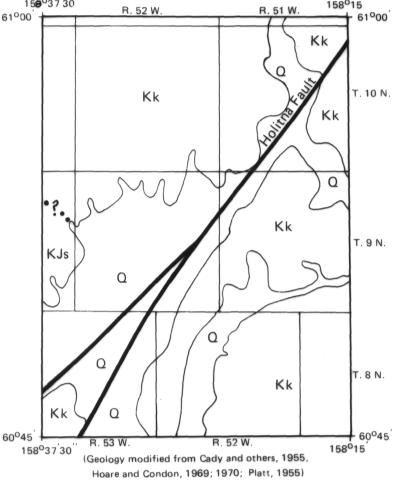
CONTOUR INTERVAL 50 FEET

DASHED LINES REPRESENT 25-FOOT CONTOURS

DATUM MEAN SEA LEVEL

This map is one in a series of geologic data bases (scale 1:63,360) from southwest Alaska. The series is scheduled for release by DGGS during 1985. Each map is a summary of geologic field data, analytical data, fossil reports, resource information, and land status available for that quadrangle. Geologic data were obtained primarily from U.S. Geological Survey (USGS) field notes collected from 1941 to 1975. Field locations were replotted on modern topographic base maps from the original trimetrogon air photos and reconnaissance topographic maps. The map numbering sequence, which follows a normal written-page progression using the township and range mile-square blocks, starts in the northwest corner of the quadrangle and ends in the southeast corner. Where necessary, original station numbers were modified to fit the format year, geologist, and field number (table 1). Original station numbers commonly consisted of the date followed by a number for each observation point, starting each day with number 1, for example, 6/11-1. The modified number preserves the original number, but adds the year and geologist to eliminate confusion and ambiguity. For example, 47Hr6/11-1 was the first station occupied by Joseph M. Hoare on June 11, 1947. Rock descriptions (table 2) and structural data (table 3) were compiled from field notes exactly as written; no attempt was made to modify or interpret the original

GENERALIZED DISTRIBUTION OF ROCK UNITS



EXPLANATION

Q - Quaternary deposits

Kk - Kuskokwim Group sedimentary rocks

KJs - Argillite and graywacke

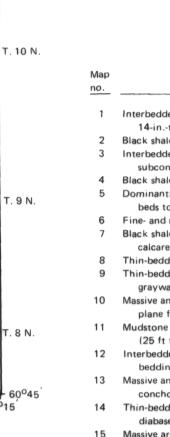
data. We appreciate the review by M.S. Robinson (DGGS) and Stephen E. Box (USGS).

110.	300000	110.	ocacion	1101	otation
1	70Hr87	15	45Hr7/17-2	33	43Hx8/2-12
	70Ca195		45Ca7/17-2	34	43Hx8/2-13
2	45Ca7/16-7	16	45Hr7/17-1	35	43Hx8/2-8
	45Hr7/16-7		45Ca7/17-1	36	43Hx8/2-9
3	45Hr7/16-6	17	70Hr65	37	43Hx8/2-10
4	45Ca7/16-6		70Co199	38	43Hx8/2-5
5	70Co196	18	70Co198	39	43Hx8/2-6
	70Hr88	19	70Co197	40	43Hx8/2-7
6	70Co194		70Hr89	41	70Hr77
	70Hr86	20	43Hx8/2-22		70Co184
. 7	70Hr69	21	43Hx8/2-23	42	43Hx8/1-1
8	70Hr68	22	43Hx8/2-24	43	70Co182
9	70Hr67	23	43Hx8/2-25	44	43Hx8/2-1
10	45Ca7/16-8	24	43Hx8/2-14	45	43Hx8/2-2
	45Hr7/16-8	25	43Hx8/2-15	46	43Hx8/2-3
11	45Hr7/17-5	26	43Hx8/2-16	47	43Hx8/2-4
	45Co7/17-5	27	43Hx8/2-17	48	70Co185
12	45Hr7/17-4	28	43H×8/2-18	49	43Hx8/1-2
	45Ca7/17-4	29	43Hx8/2-19	50	43Hx8/1-3
13	45Ca7/17-3	30	43H×8/2-20	51	70Co183
	45Hr7/17-3	31	43Hx8/2-21		70Hr76
14	70Hr66	32	43Hx8/2-11		
*Year-g	eologist-month/day-fi	eld number o	r year-geologist-field	number; Hr =	Joseph Hoare,
Co = V	V.H. Condon, Hx ≈ C.	A. Hickcox, C	Ca = W.M. Cady.		

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Table 1. Correspondence of map numbers with field stations.

TAYLOR MOUNTAINS D-7 QUADRANGLE



Rock description

20 Massive graywacke and interbedded shale

Table 2. Rock descriptions from field notes.

Rock description

Thin-bedded, slabby-weathering, calcareous(?) graywacke

Hock description	no.	Hock description
Interbedded, fine- and medium-grained graywacke (one	21	Massive graywacke and interbedded shale
14-inthick, highly calcareous bed) and shaley argillite	22	Massive graywacke and interbedded shale
Black shale with subconchoidal bedding-plane fracture	23	Interbedded, massive gray wacke and shale
Interbedded shale and graywacke with thin to massive,	24	Graywacke
subconchoidially fracturing claystone and mudstone	25	Graywacke
Black shale with minor graywacke	26	Interbedded, massive gray wacke and shale in small
Dominantly black shale with graywacke (locally calcareous		antiform
beds to 4 in. thick)	27	Interbedded massive graywacke and shale
Fine- and medium-grained graywacke	28	Interbedded massive graywacke and shale
Black shale and thinly cross-bedded graywacke (locally	29	Folded, massive graywacke and interbedded shale
calcareous)	30	Interbedded graywacke and shale
Thin-bedded graywacke with minor cross-bedding	31	Massive graywacke and interbedded shale
Thin-bedded (0.5-1.0 in.), fine- and medium-grained	32	Interbedded graywacke and shale
graywacke with shale cross-bedding and fragments	33	Interbedded graywacke and shale
Massive and thin-bedded shale with subconchoidal bedding-	34	Interbedded graywacke and shale
plane fracture	35	Interbedded graywacke and shale
Mudstone to argillite and aphanitic, vesicular basalt sill	36	Interbedded graywacke and shale in antiform
(25 ft thick)	37	Interbedded graywacke and shale
Interbedded graywacke and shale with subconchoidal	38	Interbedded graywacke and shale
bedding fracture	39	Interbedded graywacke and shale
Massive and thin-bedded claystone and argillite with sub-	40	Massive graywacke
conchoidal bedding fracture	41	Thin-bedded, calcareous(?) graywacke
Thin-bedded, fine- and medium-grained graywacke with	42	Massive graywacke
diabase dike	43	Graywacke
Massive argillite and claystone with subconchoidal bedding	44	Interbedded graywacke and shale
fracture	45	Interbedded graywacke and shale
Thin-bedded graywacke, shale, and basalt float	46	Interbedded graywacke and shale
Diabase sill with iron staining below contact	47	Interbedded graywacke and shale
Cross-bedded graywacke, siltstone (locally limy)	48	Slabby-weathering graywacke
Massive, cross-bedded graywacke and siltstone (locally	49	Massive graywacke
limy)	50	Interbedded, massive gray wacke and shale

Table 3. Structural data

	Attitude of			Attitude of	
	bedding and			bedding and	
Map	volcanic flow	Other structural	Map	volcanic flow	Other structural
no.	planes (f)	data	no.	planes (f)	data
1	N10E, 30SE		25	N45W, 85SW	
2	N20W, 75NE		26	N85W, 26NE	
3	N14E, 49NW		27	N61E, 74SE	
4	N33E, 63NW		28	N88E, 51NW	
5	N20W, 68NE		29		fold axis N32W, ??SV
6	N10E, 65SE		30	N30W, 46NE	
	N10E, 60SE		31	N25W, 52NE	
8	N28W, 35SW		32	N12W, 60NE	
9	N05E, 55NW		33	N35W, 77NE	
10	N17W, 35NE		34	N60W, 70SW	
11	N13W, 62SW		35	N80W, 80NE	
12	N47W, 45SW		36	N80W, 80NE	
13	N05W, 58NE		37	N77E, 46SE	
14	N30E, 45NW		38	N85E, 70SE	
15	N30W, 29SW		39	N15W, 70NE	
16	N05W, 73SW		40	N62E, 78SE	
17	N40W, 40SW		42	N03E, 55SE	
19	N20E, 40SE		44	N40W, 85SW	
20	N06W, 85SW	right side up	45	N40W, 65NE	
	N28W, 83SW	right side up	46	N10E, 15SE	
21	N50W, 45W		47	N60W, 80NE	
22	N25W, 40SW		49	N25E, 70SE	
23	N35W, 35NE		50	N11W, 69SW	right side up
24	N30E, 80SE				

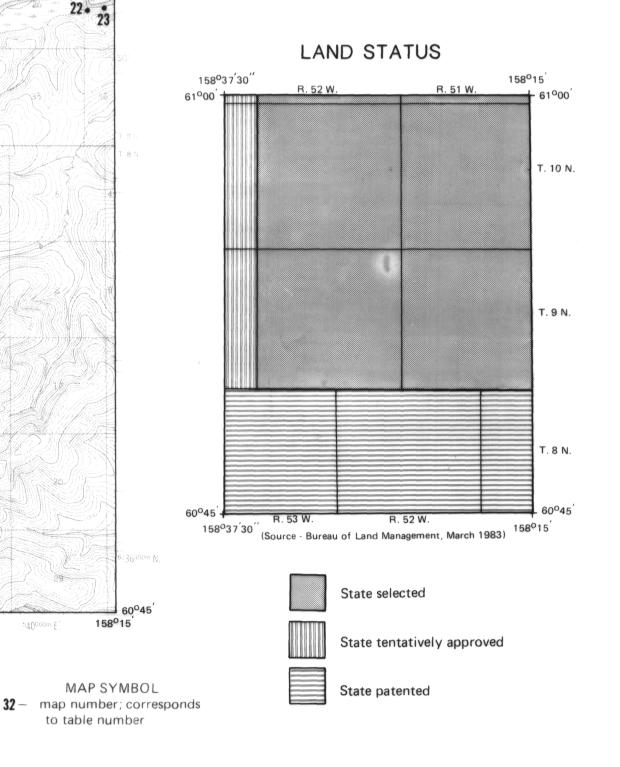
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Hoare, J.M., and Condon, W.H., 1969, Taylor Mountains D-8 Quadrangle field maps and notes: U.S. Geological Survey unpublished data, scale 1:63,360, 1 sheet.

Hoare, J.M., and Condon, W.H., 1970, Taylor Mountains D-8 Quadrangle field maps and notes: U.S. Geological Survey unpublished data, scale 1:63,360, 1 sheet.

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COMPILATION OF GEOLOGIC DATA FROM THE TAYLOR MOUNTAINS D-7 QUADRANGLE, SOUTHWESTERN ALASKA

Compiled by